AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) An integrated circuit comprising:
 - a processor core;
- a configurable peripheral device comprising a configurable logic block having circuitry capable of implementing a plurality of logic functions;
- a bus <u>coupled between said processor core and said configurable peripheral</u> <u>devices, said bus</u> connecting said processor core and said configurable peripheral device <u>without using a sub-processor</u>; and
- a programmable routing matrix coupled to said configurable logic block, said programmable routing matrix coupling signals to and from said configurable logic block.
- 2. (Currently Amended) The integrated circuit of claim 1 wherein said <u>configurable</u> peripheral device is a universal asynchronous receiver transmitter (UART).
- 3. (Original) The integrated circuit of claim 2 wherein said UART has a fixed baud rate.
- 4. (Original) The integrated circuit of claim 1 wherein said processor core, said configurable peripheral device and said bus are implemented on a field programmable gate array.
- 5. (Currently Amended) The integrated circuit of claim 1 wherein said configurable peripheral device is a flash memory controller.
- 6. (Currently Amended) A system allowing a user to select peripheral devices in a programmable logic device, comprising:
- a menu system allowing said user to select one of a plurality of configurable peripheral devices;

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a processor core;

a configurable peripheral device comprising a configurable logic block having circuitry capable of implementing a plurality of logic functions;

a bus <u>coupled between said processor core and said configurable peripheral</u> <u>device, said bus</u> connecting said processor core and said configurable peripheral device without using a sub-processor; and

a programmable routing matrix coupled to said configurable logic block, said programmable routing matrix coupling signals to and from said configurable logic block.

Claims 7-9. (Cancelled).

- 10. (Previously Presented) The system of claim 6 wherein said user selectable options comprise at least one of a UART peripheral selector, an Ethernet peripheral selector and a flash memory peripheral selector.
- 11. (Previously Presented) The system of claim 10 wherein said user selectable options comprise at least one data width size selector responsive to selection of said flash memory peripheral selector.
- 12. (Previously Presented) The system of claim 10 wherein said user selectable options comprise an error correction selector responsive to selection of said flash memory peripheral selector.
- 13. (Previously Presented) The system of claim 12 wherein said user selectable options comprise at least one error correction code selector responsive to selection of said error correction selector.

Claims 14-22. (Cancelled).

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23. (New) The integrated circuit of claim 1 further comprising a configurable input-output block coupled to said configurable logic block, said configurable input-output block coupling signals to and from an external device.

- 24. (New) The integrated circuit of claim 1 wherein said configurable logic block comprises a baud rate generator implemented in configurable logic.
- 25. (New) The integrated circuit of claim 24 wherein said configurable logic block comprises a transmitter-receiver circuit coupled to said baud rate generator and implemented in configurable logic.
- 26. (New) The system of claim 6 wherein said configurable logic block comprises a universal asynchronous receiver transmitter implemented in configurable logic.
- 27. (New) The system of claim 26 wherein said universal asynchronous receiver transmitter comprises a baud rate generator implemented in configurable logic to generate a single baud rate.
- 28. (New) The system of claim 6 further comprising a configurable input-output block coupled to said configurable logic block, said configurable input-output block coupling signals to and from an external device.
- 29. (New) An integrated circuit comprising:
 - a processor core;
- a universal asynchronous receiver transmitter circuit having a baud rate generator implemented in a configurable logic block having circuitry capable of implementing a plurality of logic functions;
- a bus coupled between said processor core and said configurable peripheral devices; and
- a programmable routing matrix coupled to said configurable logic block, said programmable routing matrix coupling signals to and from said configurable logic

block.

- 30. (New) The integrated circuit of claim 29 wherein said processor core comprises a configurable processor core.
- 31. (New) The integrated circuit of claim 29 wherein said baud rate generator has a fixed baud rate.
- 32. (New) The integrated circuit of claim 29 wherein said processor core, said configurable peripheral device and said bus are implemented on a field programmable gate array.